## SULFONATED POLYANILINE SALT COMPOSITIONS, PROCESSES AND USES

Publication number: JP5503953T Publication date: 1993-06-24

Inventor: Applicant: Classification:

- international: B41M5/26; C07C309/46; C08G73/00; C08G73/02;

C08L79/00; C09K3/00; G02F1/01; G11B7/244; G11B7/245; H01B1/12; B41M5/26; C07C309/00; C08G73/00; C08L79/00; C09K3/00; G02F1/01; G11B7/24; H01B1/12; (IPC1-7): B41M5/26; C07C309/46; C08G73/00; C08L79/00; C09K3/00;

G11B7/24

- European: C08G73/02N1; G02F1/01L; G11B7/245; H01B1/12H6

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及 WO9106887 (A1) EP0497898 (A1) EP0497898 (A4) EP0497898 (A0) EP0497898 (B1)

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Abstract not available for JP5503953T
Abstract of corresponding document: **WO9106887**Sulfonic acid-substituted polyaniline salt

compositions, processes for their preparation and uses therefor are disclosed. The sulfonated polyaniline salt compositions have fast electronic and optical responses to electrochemical potentials, improved environmental stability, and improved solubility. A process for producing the sulfonated polyaniline salt compositions comprises reacting a sulfonated polyaniline polymer with an aqueous basic solution. The sulfonated polyaniline compositions are useful for absorption of electromagnetic radiation, as a high density erasable date storage medium for use in information storage and processing applications, and to provide electronic, chemical, electrochemical, and optical microelectronic devices which use and control the chemical and physical properties of the sulfonated polyaniline

salt compositions.

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Family list

44 family members for: JP5503953T

Derived from 36 applications

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POLYANILINE COMPOSITIONS, PROCESS FOR THEIR PREPARATION

AND USES THEREOF

Applicant: UNIV OHIO STATE RES FOUND (US) Inventor: EPSTEIN ARTHUR J (US); YUE JIANG

(US)

EC: H01M4/60; C08G73/02N1; (+3) IPC: B32B7/02; C08G73/00; C08G73/02 (+44)

Publication info: AT148551T T - 1997-02-15

SULFONATED POLYANILINE SALT COMPOSITIONS, PROCESSES AND

USES

Applicant: UNIV OHIO STATE RES FOUND (US) Inventor: EPSTEIN ARTHUR J (US); YUE JIANG

(US)

EC: C08G73/02N1; G02F1/01L; (+2) IPC: B41M5/26; C07C309/46; C08G73/00 (+17)

**Publication info: AT161653T T** - 1998-01-15

POLYANILINE COMPOSITIONS, PROCESSES FOR THEIR

PREPARATION AND USES THEREOF

Applicant: Inventor:

IPC: *B32B7/02; C08G73/00; C08G73/02* (+47) EC: H01M4/60; C08G73/02N1; (+3)

Publication info: AU638385B B2 - 1993-06-24

Sulfonated polyaniline salt compositions, processes for

theirpreparation and uses thereof

Applicant: UNIV OHIO STATE RES FOUND Inventor: EPSTEIN ARTHUR J; YUE JIANG

EC: C08G73/02N1; G02F1/01L; (+2) **IPC:** *B41M5/26; C07C309/46; C08G73/00* (+19)

Publication info: AU643918B B2 - 1993-11-25

POLYANILINE COMPOSITIONS, PROCESS FOR THEIR PREPARATION

AND USES THEREOF

Inventor: EPSTEIN ARTHUR J: YUE JIANG **Applicant:** UNIV OHIO STATE RES FOUND

EC: H01M4/60; C08G73/02N1; (+3) IPC: *B32B7/02; C08G73/00; C08G73/02* (+46)

Publication info: AU6608890 A - 1991-05-16

SULFONATED POLYANILINE SALT COMPOSITIONS, PROCESSES AND

USES

**Inventor:** EPSTEIN ARTHUR J; YUE JIANG Applicant: UNIV OHIO STATE RES FOUND

IPC: B41M5/26; C07C309/46; C08G73/00 (+17) **EC:** C08G73/02N1; G02F1/01L; (+2)

Publication info: AU6731690 A - 1991-05-31

POLYANILINE COMPOSITIONS, PROCESS FOR THEIR PREPARATION

AND USES THEREOF

Applicant: UNIV OHIO STATE RES FOUND (US) Inventor: EPSTEIN ARTHUR J (US); YUE JIANG

IPC: B32B7/02; C08G73/00; C08G73/02 (+47) EC: H01M4/60; C08G73/02N1; (+3)

**Publication info: CA2067142 A1 - 1991-04-20** CA2067142 C - 2002-04-16

SULFONATED POLYANILINE SALT COMPOSITIONS, PROCESSES AND

USES

Inventor: EPSTEIN ARTHUR J (US); YUE JIANG **Applicant:** UNIV OHIO STATE RES FOUND (US)

(US)

IPC: B41M5/26; C07C309/46; C08G73/00 (+21) EC: C08G73/02N1; G02F1/01L; (+2)

Publication info: CA2067168 A1 - 1991-04-25 CA2067168 C - 2001-03-13

POLYANILINE COMPOSITIONS, PROCESS FOR THEIR PREPARATION

AND USES THEREOF

Inventor: EPSTEIN ARTHUR (US); YUE JIANG (US) Applicant: UNIV OHIO STATE RES FOUND (US)



EC: H01M4/60; C08G73/02N1; (+3) **IPC:** *B32B7/02; C08G73/00; C08G73/02* (+45)

Publication info: DE69029859D D1 - 1997-03-13

POLYANILINE COMPOSITIONS, PROCESS FOR THEIR PREPARATION

AND USES THEREOF

Inventor: EPSTEIN ARTHUR (US); YUE JIANG (US) Applicant: UNIV OHIO STATE RES FOUND (US)

EC: H01M4/60; C08G73/02N1; (+3)

IPC: *B32B7/02; C08G73/00; C08G73/02* (+45)

Publication info: DE69029859T T2 - 1997-09-04

11 SULFONATED POLYANILINE SALT COMPOSITIONS, PROCESSES AND

USES

Inventor: EPSTEIN ARTHUR (US); YUE JIANG (US) Applicant: UNIV OHIO STATE RES FOUND (US)

EC: C08G73/02N1; G02F1/01L; (+2)

IPC: B41M5/26; C07C309/46; C08G73/00 (+17)

Publication info: DE69031867D D1 - 1998-02-05

12 SULFONATED POLYANILINE SALT COMPOSITIONS, PROCESSES AND

**USES** 

Inventor: EPSTEIN ARTHUR (US); YUE JIANG (US) Applicant: UNIV OHIO STATE RES FOUND (US)

EC: C08G73/02N1; G02F1/01L; (+2)

IPC: B41M5/26; C07C309/46; C08G73/00 (+17)

Publication info: DE69031867T T2 - 1998-09-03

13 POLYANILINE COMPOSITIONS, PROCESS FOR THEIR PREPARATION

AND USES THEREOF

Applicant: UNIV OHIO STATE RES FOUND (US) Inventor: EPSTEIN ARTHUR J (US); YUE JIANG

**IPC:** *B32B7/02; C08G73/00; C08G73/02* (+46) EC: H01M4/60; C08G73/02N1; (+3)

Publication info: DK495885T T3 - 1997-07-28

14 SULFONATED POLYANILINE SALT COMPOSITIONS, PROCESSES AND

**USES** 

Inventor: EPSTEIN ARTHUR J (US); YUE JIANG **Applicant:** UNIV OHIO STATE RES FOUND (US)

(US)

**IPC:** *B41M5/26; C07C309/46; C08G73/00* (+19) EC: C08G73/02N1; G02F1/01L; (+2)

Publication info: DK497898T T3 - 1998-08-31

15 POLYANILINE COMPOSITIONS, PROCESS FOR THEIR PREPARATION

AND USES THEREOF.

Applicant: UNIV OHIO STATE RES FOUND (US) Inventor: EPSTEIN ARTHUR J (US); YUE JIANG

EC: H01M4/60; C08G73/02N1; (+3) IPC: *B32B7/02; C08G73/00; C08G73/02* (+46)

Publication info: EP0495885 A1 - 1992-07-29

**EP0495885 A4** - 1993-08-25 **EP0495885 B1** - 1997-01-29

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Family list

44 family members for: JP5503953T

Derived from 36 applications

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16 SULFONATED POLYANILINE SALT COMPOSITIONS, PROCESSES AND

USES.

Inventor: EPSTEIN ARTHUR J (US); YUE JIANG

**Applicant:** UNIV OHIO STATE RES FOUND (US)

(US)

**EC:** C08G73/02N1; G02F1/01L; (+2)

**IPC:** *B41M5/26; C07C309/46; C08G73/00* (+17)

Publication info: EP0497898 A1 - 1992-08-12 EP0497898 A4 - 1993-01-07 EP0497898 B1 - 1997-12-29

17 POLYANILINE COMPOSITIONS, PROCESS FOR THEIR PREPARATION

**AND USES THEREOF** 

**Inventor:** EPSTEIN ARTHUR J (US); YUE JIANG

**Applicant: UNIV OHIO STATE RES FOUND** 

(US)

**EC:** H01M4/60; C08G73/02N1; (+3)

**IPC:** *B32B7/02; C08G73/00; C08G73/02* (+45)

Publication info: ES2099715T T3 - 1997-06-01

18 SULFONATED POLYANILINE SALT COMPOSITIONS, PROCESSES AND

USES

**Inventor:** EPSTEIN ARTHUR J (US); YUE JIANG

Applicant: UNIV OHIO STATE RES FOUND

(US)

**EC:** C08G73/02N1; G02F1/01L; (+2)

**IPC:** *B41M5/26; C07C309/46; C08G73/00* (+17)

Publication info: ES2113351T T3 - 1998-05-01

19 POLYANILINE COMPOSITIONS, PROCESS FOR THEIR PREPARATION

**AND USES THEREOF** 

**Inventor:** EPSTEIN ARTHUR J (US); YUE JIANG

Applicant: UNIV OHIO STATE RES FOUND (US)

(US)

EC: H01M4/60; C08G73/02N1; (+3)

**IPC:** *B32B7/02; C08G73/00; C08G73/02* (+45)

Publication info: GR3023279T T3 - 1997-07-30

20 SULFONATED POLYANILINE SALT COMPOSITIONS, PROCESSES AND

**USES** 

**Inventor:** EPSTEIN ARTHUR J (US); YUE JIANG

**Applicant:** UNIV OHIO STATE RES FOUND (US)

(US)

EC: C08G73/02N1; G02F1/01L; (+2)

IPC: B41M5/26; C07C309/46; C08G73/00 (+17)

**Publication info: GR3026288T T3** - 1998-06-30

21 SULFONATED POLYANILINE SALT COMPOSITIONS, PROCESSES AND

**USES** 

Inventor:

Applicant:

EC: C08G73/02N1; G02F1/01L; (+2)

IPC: B41M5/26; C07C309/46; C08G73/00 (+15)

**Publication info: JP2953671B2 B2** - 1999-09-27 **JP5503953T T** - 1993-06-24

22 POLYANILINE COMPOSITIONS, PROCESS FOR THEIR PREPARATION

AND USES THEREOF

Inventor:

Applicant:

**EC:** H01M4/60; C08G73/02N1; (+3)

**IPC:** *B32B7/02; C08G73/00; C08G73/02* (+36)

**Publication info: JP2994747B2 B2** - 1999-12-27 **JP5504153T T** - 1993-07-01

23 Electromagnetic radiation absorbers and modulators comprising

polyaniline

Inventor: EPSTEIN ARTHUR J (US); GINDER JOHN Applicant: UNIV OHIO STATE RES FOUND (US)

M (US); (+2)

**EC:** C08G73/02N1; D01F6/76; (+4)

**IPC:** *C08G73/02; D01F6/76; D06M10/10* (+13)

Publication info: US5079334 A - 1992-01-07

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24 Processes for preparation of sulfonated polyaniline compositions and uses thereof

Inventor: EPSTEIN ARTHUR J (US); YUE JIANG Applicant: UNIV OHIO STATE RES FOUND (US)

(US)

IPC: c08G73/02; G02F1/01; G11B7/244 (+12) EC: H01M4/60; C08G73/02N1; (+3)

Publication info: US5093439 A - 1992-03-03

25 Compositions of insulating polymers and sulfonated polyaniline

compositions and uses thereof

Applicant: UNIV OHIO STATE RES FOUND (US) Inventor: EPSTEIN ARTHUR J (US); YUE JIANG

(US)

IPC: c08G73/02; G02F1/01; G11B7/244 (+10) EC: H01M4/60; C08G73/02N1; (+3)

Publication info: US5109070 A - 1992-04-28

26 Process for forming fibers of sulfonated polyaniline compositions and uses thereof

**Inventor:** EPSTEIN ARTHUR J (US); YUE JIANG

Applicant: UNIV OHIO STATE RES FOUND (US)

(US)

EC: H05K9/00M4F; C08G73/02N1; (+4)

IPC: c08G73/02; G02F1/01; G11B7/244 (+10)

Publication info: US5135696 A - 1992-08-04

27 Polyaniline compositions, processes for their preparation and uses

thereof

Applicant: UNIV OHIO STATE RES FOUND (US) Inventor: EPSTEIN ARTHUR J (US); YUE JIANG

(US)

IPC: C08G73/02; D01F6/76; D06M10/10 (+21) EC: H01M4/60; C08G73/02N1; (+7)

Publication info: US5137991 A - 1992-08-11

28 Electromagnetic radiation absorbers and modulators comprising

polyaniline

Inventor: EPSTEIN ARTHUR J (US); GINDER JOHN Applicant: UNIV OHIO STATE RES FOUND (US)

M (US); (+2)

IPC: co8G73/02; D01F6/76; D06M10/10 (+12) EC: C08G73/02N1; D01F6/76; (+4)

Publication info: US5147968 A - 1992-09-15

29 Sulfonated polyaniline salt compositions and uses thereof

Inventor: EPSTEIN ARTHUR J (US); YUE JIANG **Applicant:** UNIV OHIO STATE RES FOUND (US)

(US)

IPC: c08G73/02; D01F6/76; D06M10/10 (+19) EC: H01M4/60; C08G73/02N1; (+8)

Publication info: US5159031 A - 1992-10-27

30 Sulfonated polyaniline salt compositions, processes for their

preparation and uses thereof

Applicant: UNIV OHIO STATE RES FOUND (US) Inventor: EPSTEIN ARTHUR J (US); YUE JIANG

(US)

EC: H01M4/60; C08G73/02N1; (+8) IPC: C08G73/02; D01F6/76; D06M10/10 (+22)

Publication info: US5164465 A - 1992-11-17

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Family list

44 family members for: JP5503953T

Derived from 36 applications

Back to JP5503!

31 Sulfonated polyaniline compositions, ammonium salts thereof, process

for their preparation and uses thereof

Inventor: EPSTEIN ARTHUR J (US): YUE JIANG

Applicant: UNIV OHIO STATE RES FOUND (US)

(US)

EC: H01M4/60; C08G73/02N1; (+7)

IPC: C08G73/02; D01F6/76; D06M10/10 (+21)

Publication info: US5208301 A - 1993-05-04

32 Electromagnetic radiation absorbers and modulators comprising polyaniline

Inventor: EPSTEIN ARTHUR J (US); GINDER JOHN Applicant: UNIV OHIO STATE RES FOUND (US)

M (US); (+2)

**EC:** C08G73/02N1; D01F6/76; (+4)

IPC: co8G73/02; D01F6/76; D06M10/10 (+13)

Publication info: US5294694 A - 1994-03-15

33 Electromagnetic radiation absorbers and modulators comprising

polyaniline

Inventor: EPSTEIN ARTHUR J (US); ROE MITCHELL Applicant: UNIV OHIO STATE RES FOUND (US)

G (US); (+3)

**EC:** C08G73/02N1; D01F6/76; (+4)

**IPC:** C08G73/02; D01F6/76; D06M10/10 (+12)

**Publication info: US5463014 A** - 1995-10-31

34 Electromagnetic radiation absorbers and modulators comprising

polyaniline

Inventor: EPSTEIN ARTHUR J (US); ROE MITCHELL Applicant: UNIV OHIO STATE RES FOUND (US)

G (US); (+3)

EC: C08G73/02N1; D01F6/76; (+4)

IPC: co8G73/02; D01F6/76; D06M10/10 (+10)

**Publication info: US5563182 A** - 1996-10-08

35 POLYANILINE COMPOSITIONS, PROCESS FOR THEIR PREPARATION

AND USES THEREOF

Inventor: EPSTEIN ARTHUR J (US); YUE JIANG Applicant: UNIV OHIO STATE RES FOUND (US)

(US)

EC: H01M4/60; C08G73/02N1; (+3) IPC: E

**IPC:** *B32B7/02; C08G73/00; C08G73/02* (+46)

**Publication info: WO9105979 A1** - 1991-05-02

36 SULFONATED POLYANILINE SALT COMPOSITIONS, PROCESSES AND

**USES** 

Inventor: EPSTEIN ARTHUR J (US); YUE JIANG Applicant: UNIV OHIO STATE RES FOUND (US)

(US)

EC: C08G73/02N1; G02F1/01L; (+2) IPC: B41M5/26; C07C309/46; C08G73/00 (+17)

Publication info: WO9106887 A1 - 1991-05-16

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